

CRF Errors Corrected by the STIC Systems Branch

2514
0503 OIPE

Serial Number: 09/887,552A

CRF Processing Date: 5/22/2002
 Edited by: AS
 Verified by: AS (STIC staff) # 8

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☒ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

3/1/95



OIPE

RAW SEQUENCE LISTING

DATE: 05/22/2002

PATENT APPLICATION: US/09/887,552A

TIME: 17:15:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05222002\I887552A.raw

```

4 <110> APPLICANT: Brennan, Thomas J.
5     Leviten, Michael W.
7 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CERBERUS GENE
8     DISRUPTIONS
10 <130> FILE REFERENCE: R-67
12 <140> CURRENT APPLICATION NUMBER: US 09/887,552A
13 <141> CURRENT FILING DATE: 2001-06-21
15 <150> PRIOR APPLICATION NUMBER: US 60/213,670
16 <151> PRIOR FILING DATE: 2000-06-21
18 <150> PRIOR APPLICATION NUMBER: US 60/266,046
19 <151> PRIOR FILING DATE: 2001-02-01
21 <150> PRIOR APPLICATION NUMBER: US 60/282,668
22 <151> PRIOR FILING DATE: 2001-04-09
24 <160> NUMBER OF SEQ ID NOS: 4
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 1752
30 <212> TYPE: DNA
31 <213> ORGANISM: Mus musculus
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: 1235, 1313
36 <223> OTHER INFORMATION: n = A,T,C or G
38 <400> SEQUENCE: 1
39 gggggggggg ggggtcagag ggagctttct tttaggcccg tccatctgtg aatctaacct 60
40 cagtttcttg gaatcaggaa gcatgcatct cctcttagtt cagctgcttg ttctcttgcc 120
41 tctggggaag gcagacctat gtgtggatgg ctgccagagt cagggctctt tatcctttcc 180
42 tctcctagaa aggggtcgca gagatctcca cgtggccaac cacgaggagg cagaagacaa 240
43 gccggatctg tttgtggccg tgccacacct catgggcacc agcctggctg gggaaggcca 300
44 gaggcagaga gggaagatgc tgtccaggct tggaagattc tggaagaaac ctgagaccga 360
45 attttacccc ccaagggatg tggaaagcga tcatgtctca tcgggggatgc aggccgtgac 420
46 tcagccagca gatgggagga aagtggagag atcacctcta caggaggaag ccaagaggtt 480
47 ctggcatcgg ttcattgttc gaaagggccc ggcgttcag ggagtcattc tgcccatcaa 540
48 aagccacgaa gtacactggg agacctgcag gactgtgccc ttcaaccaga ccattgcccc 600
49 tgaagactgt caaaaagtgc ttgtccagaa caacctttgc tttggcaaat gcagtcccat 660
50 tcgttttccc ggagaagggg cagatgccc cagcttctgc tcccactgct cgcccaccaa 720
51 attcaccacc gtgcacttga tgctgaactg caccagccca acccccgtgg tcaagatggt 780
52 gatgcaagta gaagagtgtc agtgcattgt gaagacgga cgtggagagg agcgctcct 840
53 actggctggt tcccagggtt ccttcattcc tggacttcca gcttcaaaaa caaacccatg 900
54 aattacctca acagaaagca aaacctcaac agaataagtg agggttattc aatctggaaa 960
55 tgttatgtga gttatataaa gatcagtggg aaatatcttt ctctctccct ctctccccct 1020
56 ctctcttctc tctattttct ctctctctct ctctctctct ctctctctca 1080
57 cacacacaca cacacacaca cacacacaca catgtttgtg tttagacagg gtcttatgta 1140

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Input Set : A:\PTO.AMC.txt

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58 ttctcagctg gctcaaaact cacaatgtgg ctggggatga ttttaaactc ctgatccaat 1200
 59 tcctgagtcg tgggattaca gacatgctcc ataanacata gctcccagaa ggatttttaa 1260
 60 aagagatttt gcatgtttca aagttgcctt tgagactcag aaatattttg atntattgaa 1320
 61 tggccttgcc acagatgtgg gaggcagctt gcttggtggc ccaagtattt ttttttggtt 1380
 62 cgttcagaat tctccacatg aagttttttac tgttggttat ctggcggtga agaaggaata 1440
 63 gtgaaggtac ttttaacagt ttacacgtgg aaggggctca ggcactagga accaaccttt 1500
 64 tcccgaata tgaggaaaat acatgaacag tattagagtc acttgaggaa gttactagga 1560
 65 aacgccataa gtctccaagt acattgtgag tcattttgaa ggacaatcgt gtatatagac 1620
 66 gaaatcttct actcgtatgc ttttgaatct tctagcaagt taggtttcta tgtttgggct 1680
 67 tcttcttatt gtctaagagt atgtgtgaca aattcaacct gacaaatacc tcaatggcaa 1740
 68 attctgaccc tg 1752

70 <210> SEQ ID NO: 2

71 <211> LENGTH: 272

72 <212> TYPE: PRT

73 <213> ORGANISM: Mus musculus

75 <400> SEQUENCE: 2

76 Met His Leu Leu Leu Val Gln Leu Leu Val Leu Leu Pro Leu Gly Lys
 77 1 5 10 15
 78 Ala Asp Leu Cys Val Asp Gly Cys Gln Ser Gln Gly Ser Leu Ser Phe
 79 20 25 30
 80 Pro Leu Leu Glu Arg Gly Arg Arg Asp Leu His Val Ala Asn His Glu
 81 35 40 45
 82 Glu Ala Glu Asp Lys Pro Asp Leu Phe Val Ala Val Pro His Leu Met
 83 50 55 60
 84 Gly Thr Ser Leu Ala Gly Glu Gly Gln Arg Gln Arg Gly Lys Met Leu
 85 65 70 75 80
 86 Ser Arg Leu Gly Arg Phe Trp Lys Lys Pro Glu Thr Glu Phe Tyr Pro
 87 85 90 95
 88 Pro Arg Asp Val Glu Ser Asp His Val Ser Ser Gly Met Gln Ala Val
 89 100 105 110
 90 Thr Gln Pro Ala Asp Gly Arg Lys Val Glu Arg Ser Pro Leu Gln Glu
 91 115 120 125
 92 Glu Ala Lys Arg Phe Trp His Arg Phe Met Phe Arg Lys Gly Ala Pro
 93 130 135 140
 94 Phe Gln Gly Val Ile Leu Pro Ile Lys Ser His Glu Val His Trp Glu
 95 145 150 155 160
 96 Thr Cys Arg Thr Val Pro Phe Asn Gln Thr Ile Ala His Glu Asp Cys
 97 165 170 175
 98 Gln Lys Val Val Gln Asn Asn Leu Cys Phe Gly Lys Cys Ser Ser
 99 180 185 190
 100 Ile Arg Phe Pro Gly Glu Gly Ala Asp Ala His Ser Phe Cys Ser His
 101 195 200 205
 102 Cys Ser Pro Thr Lys Phe Thr Thr Val His Leu Met Leu Asn Cys Thr
 103 210 215 220
 104 Ser Pro Thr Pro Val Val Lys Met Val Met Gln Val Glu Glu Cys Gln
 105 225 230 235 240
 106 Cys Met Val Lys Thr Glu Arg Gly Glu Glu Arg Leu Leu Leu Ala Gly
 107 245 250 255
 108 Ser Gln Gly Ser Phe Ile Pro Gly Leu Pro Ala Ser Lys Thr Asn Pro

RAW SEQUENCE LISTING

DATE: 05/22/2002

PATENT APPLICATION: US/09/887,552A

TIME: 17:15:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05222002\I887552A.raw

```
109          260          265          270
112 <210> SEQ ID NO: 3
113 <211> LENGTH: 200
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Targeting vector
120 <400> SEQUENCE: 3
121 tccatctgtg aatctaacct cagtctctgg gaatcaggaa gcatgcatct cctcttagtt 60
122 cagctgcttg ttctcttgcc tctggggaag gcagacctat gtgtggatgg ctgccagagt 120
123 cagggtcttt tctcttttcc tctcccagaa aggggtcgca gagatctcca cgtggccaac 180
124 cacgaggagg cagaagacaa                200
126 <210> SEQ ID NO: 4
127 <211> LENGTH: 200
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Targeting vector
134 <400> SEQUENCE: 4
135 cctgcccacg aaaagccacg aagtacactg ggagacctgc aggactgtgc ccttcaacca 60
136 ggtatgcatt ctagagggtg aaccaccagt ttgccagaca gggaggacag ctggacagct 120
137 aggacaaacg gcaaaataga aagagtctgg cgagagctcg ggccttgtct agttccagat 180
138 tcagtccttt gggatttcac                200
```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/887,552A

DATE: 05/22/2002
TIME: 17:15:51

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\05222002\I887552A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1235,1313



OIPE

RAW SEQUENCE LISTING

DATE: 05/13/2002

PATENT APPLICATION: US/09/887,552A

TIME: 16:48:26

Input Set : A:\R-67 Sequence listing for submission.txt
 Output Set: N:\CRF3\05132002\I887552A.raw

**Does Not Comply
 Corrected Diskette Needed**

4 <110> APPLICANT: Brennan, Thomas J.
 5 Leviten, Michael W.
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 8 DISRUPTIONS
 10 <130> FILE REFERENCE: R-67
 12 <140> CURRENT APPLICATION NUMBER: US 09/887,552A
 C--> 13 <141> CURRENT FILING DATE: 2002-04-30
 15 <150> PRIOR APPLICATION NUMBER: US 60/213,670
 16 <151> PRIOR FILING DATE: 2000-06-21
 18 <150> PRIOR APPLICATION NUMBER: US 60/266,046
 19 <151> PRIOR FILING DATE: 2001-02-01
 21 <150> PRIOR APPLICATION NUMBER: US 60/282,668
 22 <151> PRIOR FILING DATE: 2001-04-09
 24 <160> NUMBER OF SEQ ID NOS: 4
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

126 <210> SEQ ID NO: 4
 127 <211> LENGTH: 200
 128 <212> TYPE: DNA
 129 <213> ORGANISM: Artificial Sequence
 131 <220> FEATURE:
 132 <223> OTHER INFORMATION: Targeting vector
 134 <400> SEQUENCE: 4
 135 cctgcccac aaagccacg aagtacactg ggagacctgc aggactgtgc cttcaacca 60
 136 ggtatgcatt ctagagggt aaccaccagt ttgccagaca gggaggacag ctggacagct 120
 137 aggacaaacg gcaaaataga aagagtcttg cgagagctcg ggccttgtct agttccagat 180
 138 tcagtccttt gggattcat 200
 E--> 142 ①

VERIFICATION SUMMARY

DATE: 05/13/2002

PATENT APPLICATION: US/09/887,552A

TIME: 16:48:27

Input Set : A:\R-67 Sequence listing for submission.txt

Output Set: N:\CRF3\05132002\I887552A.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1200
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1260
L:142 M:254 E: No. of Bases conflict, this line has no nucleotides.